SUMMARY DATA FOR CASE 7C

This section contains the following economic data for case 7C:

- Capital Investment and Revenue Requirement Summary
- Total Plant Cost

CAPITAL INVESTMENT & REVENUE REQUIREMENT SUMMARY

TITLE/DEFINITION

Case:	Super-Critical PC w/o CO_2		
Plant Size:	462.1 (MW,net)	HeatRate:	8,421 (Btu/kWh)
Primary/Secondary Fuel(type):	Illnois #6	Cost:	1.24 ($/MMBtu)
Design/Construction:	4 (years)	BookLife:	20 (years)
TPC(Plant Cost) Year:	1999 (Dec.)	TPI Year:	2000 (Jan.)
Capacity Factor:	65 (%)	CO_2 Removed	(tons/year)

CAPITAL INVESTMENT		**$x1000**	**$/kW**
Process Capital & Facilities		434,047	939.4
Engineering(incl.C.M.,H.O.& Fee)		26,043	56.4
Process Contingency			
Project Contingency		67,987	147.1
TOTAL PLANT COST(TPC)		$528,077	1142.9
TOTAL CASH EXPENDED	$528,077		
AFDC	$42,842		
TOTAL PLANT INVESTMENT(TPI)		$570,919	1235.6
Royalty Allowance			
Preproduction Costs		15,064	32.6
Inventory Capital		5,530	12.0
Initial Catalyst & Chemicals(w/equip.)			
Land Cost		512	1.1
TOTAL CAPITAL REQUIREMENT(TCR)		$592,025	1281.3

OPERATING & MAINTENANCE COSTS (1999 Dollars)	**$x1000**	**$/kW-yr**
Operating Labor	4,815	10.4
Maintenance Labor	2,635	5.7
Maintenance Material	3,953	8.6
Administrative & Support Labor	1,863	4.0
TOTAL OPERATION & MAINTENANCE	$13,266	28.7
FIXED O & M		20.15 $/kW-yr
VARIABLE O & M		0.15 ¢/kWh

CONSUMABLE OPERATING COSTS,less Fuel (1999 Dollars)	**$x1000**	**¢/kWh**
Water	537	0.02
Chemicals	6,183	0.24
Other Consumables	2,909	0.11
Waste Disposal	3,315	0.13
TOTAL CONSUMABLE OPERATING COSTS	$12,945	0.49

BY-PRODUCT CREDITS (1999 Dollars)

FUEL COST (1999 Dollars)	$27,473	1.04

		Levelized (Over Book Life $)	
PRODUCTION COST SUMMARY	**$/ton CO_2**		**¢/kWh**
Fixed O & M		20.2/kW-yr	0.35
Variable O & M			0.15
Consumables			0.49
By-product Credit			
Fuel			1.04
TOTAL PRODUCTION COST			2.04
LEVELIZED CARRYING CHARGES(Capital)		176.8/kW-yr	3.11
LEVELIZED (Over Book Life) BUSBAR COST OF POWER			5.15

ESTIMATE BASIS/FINANCIAL CRITERIA for REVENUE REQUIREMENT CALCULATIONS

GENERAL DATA/CHARACTERISTICS

Case Title:	Super-Critical PC w/o CO_2			
Unit Size:/Plant Size:	462.1	MW,net	462.1	MWe
Location:	East-West Region			
Fuel: Primary/Secondary	Illnois #6			
Energy From Primary/Secondary Fuels	8,421	Btu/kWh		Btu/kWh
Levelized Capacity Factor / Preproduction(equivalent months):	65	%	1	months
Capital Cost Year Dollars (Reference Year Dollars):	1999	(December)		
Delivered Cost of Primary/Secondary Fuel	1.24	$/MBtu		$/MBtu
Design/Construction Period:	4	years		
Plant Startup Date (1st. Year Dollars):	2000	(January)		
Land Area/Unit Cost	320	acre	$1,600	/acre

FINANCIAL CRITERIA

Project Book Life:	20	years
Book Salvage Value:		%
Project Tax Life:	20	years
Tax Depreciation Method:	Accel. based on ACRS Class	
Property Tax Rate:	1.0	% per year
Insurance Tax Rate:	1.0	% per year
Federal Income Tax Rate:	34.0	%
State Income Tax Rate:	4.2	%
Investment Tax Credit/% Eligible		%
Economic Basis:	Over Book Lif	Constant Dollars

Capital Structure	% of Total	Cost(%)
Common Equity	45	12.00
Preferred Stock	10	8.50
Debt	45	9.00
Weighted Cost of Capital:(after tax)		8.76 %

		Over Book Life	1999 to 2000
Escalation Rates	General	% per year	% per year
	Primary Fuel	% per year	% per year
	Secondary Fuel	% per year	% per year

Client: EPRI/DOE VISION 21
Project: INNOVATIVE POWER CYCLES
Report Date: 28-Aug-2000 01:40 PM

TOTAL PLANT COST SUMMARY

Case: Super-Critical PC w/o CO_2
Plant Size: 462.1 MW,net
Estimate Type: Conceptual
Cost Base (Dec) 1999 ($x1000)

Acct No.	Item/Description	Equipment Cost	Material Cost	Labor Direct	Labor Indirect	Sales Tax	Bare Erected Cost $	Eng'g CM H.O.& Fee	Contingencies Process	Contingencies Project	TOTAL PLANT COST $	TOTAL PLANT COST $/kW
1	COAL & SORBENT HANDLING	7,337	2,218	5,858	410		**$15,822**	949		3,354	**$20,126**	44
2	COAL & SORBENT PREP & FEED	9,199		3,000	210		**$12,409**	745		2,631	**$15,784**	34
3	FEEDWATER & MISC. BOP SYSTEMS	16,496		7,815	547		**$24,858**	1,491		5,981	**$32,330**	70
4	PC BOILER & ACCESSORIES											
4.1	PC Boiler	73,384		29,348	2,054		**$104,787**	6,287		11,107	**$122,182**	264
4.2	Open											
4.3	Open											
4.4-4.9	Boiler BoP (w/FD & ID Fans)	3,489		1,204	84		**$4,777**	287		506	**$5,570**	12
	SUBTOTAL 4	*76,874*		*30,552*	*2,139*		***$109,564***	*6,574*		*11,614*	***$127,752***	*276*
5A	FLUE GAS CLEANUP	38,574		21,414	1,499		**$61,486**	3,689		6,518	**$71,693**	155
5B	CO_2 REMOVAL & COMPRESSION											
6	COMBUSTION TURBINE/ACCESSORIE											
6.1	Combustion Turbine Generator	N/A		N/A								
6.2-6.9	Combustion Turbine Accessories											
	SUBTOTAL 6											
7	HRSG, DUCTING & STACK											
7.1	Heat Recovery Steam Generator	N/A		N/A								
7.2-7.9	HRSG Accessories, Ductwork and Stack	10,259	918	8,753	613		**$20,544**	1,233		3,602	**$25,378**	55
	SUBTOTAL 7	*10,259*	*918*	*8,753*	*613*		***$20,544***	*1,233*		*3,602*	***$25,378***	*55*
8	STEAM TURBINE GENERATOR											
8.1	Steam TG & Accessories	41,141		7,100	497		**$48,738**	2,924		5,166	**$56,829**	123
8.2-8.9	Turbine Plant Auxiliaries and Steam Pipin	14,701	600	8,267	579		**$24,147**	1,449		4,494	**$30,089**	65
	SUBTOTAL 8	*55,842*	*600*	*15,367*	*1,076*		***$72,885***	*4,373*		*9,660*	***$86,918***	*188*
9	COOLING WATER SYSTEM	5,908	6,834	6,394	448		**$19,584**	1,175		4,014	**$24,773**	54
10	ASH/SPENT SORBENT HANDLING SYS	6,288	85	12,037	843		**$19,252**	1,155		3,094	**$23,502**	51
11	ACCESSORY ELECTRIC PLANT	9,929	3,140	10,358	725		**$24,152**	1,449		4,118	**$29,719**	64
12	INSTRUMENTATION & CONTROL	6,452		2,700	189		**$9,341**	560		1,253	**$11,155**	24
13	IMPROVEMENTS TO SITE	2,063	1,216	4,834	338		**$8,450**	507		2,687	**$11,644**	25
14	BUILDINGS & STRUCTURES		15,912	18,493	1,295		**$35,699**	2,142		9,460	**$47,302**	102
	TOTAL COST	**$245,221**	**$30,923**	**$147,574**	**$10,330**		**$434,047**	**$26,043**		**$67,987**	**$528,077**	**1143**